

<120> Transforming Growth Factor Alpha HIII

<130> PF220P1

<140> Unassigned

<141> 2000-12-01

<150> 08/778,545

<151> 1997-01-03

<150> 60/011,136

<151> 1996-01-04

<150> 60/168,387

<151> 1999-12-02

<160> 21

<170> PatentIn version 3.0

$\langle 210 \rangle$ 1

<211> 923

<212> DNA

<213> homo sapiens

<400> 1

gaaatggcg cctcacggcc egggtagtct tacgac~~c~~ctg gtgccctggg ctgccgccct 60

gctcctcgct ctgggcgtgg aaagggctct ggcgctaccc gagatatgca cccaatgtcc 120

agggagcgtg caaaatttgt caaaagtggc cttttattgt aaaacgacac gagagctaatt 180

gctgcatgcc cgttgctgcc tgaatcagaa/gggcaccatc ttggggctgg atctccagaa 240

ctgttctctg gaggaccctg gtccaaactt tcatcaggca cataccactg tcatcataga 300

cctgcaagca aacccccctca aaggtgactt ggccaacacc ttccgtggct ttactcagct 360

ccagactctg atactgccac aacatgtcaa ctgtcctgga ggaattaatg cctggaatac 420

tatcacctct tatatagaca ~~accaa~~tctg tcaagggcaa aagaaccttt gcaataaacac 480

tggggacca gaaatgtgtc ctgagaatgg atcttgtgta cctgatggtc caggtctttt 540

gcagtggtgtt tgtgctgatg gtttccatgg atacaagtgt atgcgccagg gctcgttctc 600

actgcttatg ttcttcggga ttctgggagc caccactcta tccgtctcca ttctgctttg 660

ggcgacccag cgcgaaaag ccaagacttc atgaactaca taggtcttac cattgaccta 720

agatcaatct gaactatctt agcccagtca gggagctctg cttcctagaa aggcattctt 780

cgccagtggg ttcgcctcaa ggttgaggcc gccattggaa gatgaaaaat tgcactccct 840

[illegible]

```

tttttaaaaaa aaaaaaaaaa aaa

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<210> 2
<211> 229
<212> PRT
<213> homo sapiens
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<400> 2

Met Ala Pro His Gly Pro Gly Ser Leu Thr Thr Leu Val Pro Trp Ala
1 5 10 15

Ala Ala Leu Leu Leu Ala Leu Gly Val Glu Arg Ala Leu Ala Leu Pro
20 25 30

Glu Ile Cys Thr Gln Cys Pro Gly Ser Val Gln Asn Leu Ser Lys Val
35 40 45

Ala Phe Tyr Cys Lys Thr Thr Arg Glu Leu Met Leu His Ala Arg Cys
50 55 60

Cys Leu Asn Gln Lys Gly Thr Ile Leu Gly Leu Asp Leu Gln Asn Cys
65 70 75 80

Ser Leu Glu Asp Pro Gly Pro Asn Phe His Gln Ala His Thr Thr Val
85 90 95

Ile Ile Asp Leu Gln Ala Asn Pro Leu Lys Gly Asp Leu Ala Asn Thr
100 105 110

Phe Arg Gly Phe Thr Gln Leu Gln Thr Leu Ile Leu Pro Gln His Val
115 120 125

Asn Cys Pro Gly Gly Ile Asn Ala Trp Asn Thr Ile Thr Ser Tyr Ile
130 135 140

Asp Asn Gln Ile Cys Gln Gly Gln Lys Asn Leu Cys Asn Asn Thr Gly
145 150 155 160

Asp Pro Glu Met Cys Pro Glu Asn Gly Ser Cys Val Pro Asp Gly Pro
165 170 175

Gly Leu Leu Gln Cys Val Cys Ala Asp Gly Phe His Gly Tyr Lys Cys
180 185 190

Met Arg Gln Gly Ser Phe Ser Leu Leu Met Phe Phe Gly Ile Leu Gly
195 200 205

Ala Thr Thr Leu Ser Val Ser Ile Leu Leu Trp Ala Thr Gln Arg Arg
210 215 220

Lys Ala Lys Thr Ser
225

 $\langle 210 \rangle$ 3

$\langle 400 \rangle$ 3

Glu Asn Gly Ser Cys Val Pro Asp Gly Pro Gly Leu Leu Gln Cys Val
20 25 30

Cys Ala Asp Gly Phe His Gly Tyr Lys Cys Met Arg Gln Gly Ser Phe
35 40 45

Ser Leu Leu Met
50

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<210> 4
<211> 733
<212> DNA
<213> homo sapiens
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<400> 4

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tctcccgga	tcctgaggtc	acatgcgtgg	tggtggacgt	aagccacgaa	gaccctgagg	180
tcaagttcaa	ctggtacgtg	gacggcgtgg	aggtgcataa	tgccaagaca	aagccgcggg	240
aggagcagta	caacagcacg	taccgtgtgg	tcagcgtcct	caccgtcctg	caccaggact	300
ggctgaatgg	caaggagtac	aagtgcaagg	tctccaacaa	agccctccca	acccccatcg	360
agaaaaccat	ctccaaagcc	aaagggcagc	cccgagaacc	acaggtgtac	accctgcccc	420
catcccgga	tgagctgacc	agaaccagg	tcagcctgac	ctgcctggtc	aaaggcttct	480
atccaagcga	catcgccgtg	gagtgggaga	gcaatgggca	gccggagAAC	aactacaaga	540
ccacgcctcc	cgtgctggac	tccgacggct	ccttcttctc	ctacagcaag	ctcaccgtgg	600
acaagagcag	gtggcagcag	gggaacgtct	tctcatgctc	cgtgatgcat	gaggctctgc	660
acaaccacta	cacgcagaag	agcctctccc	tgtctccggg	taaatgagtg	cgacggccgc	720
gactctagag	gat					733

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<210> 5
<211> 5
<212> PRT
<213> WSXWS motif
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<220>
<221> SITE

<400> 5

<210>	6
<211>	86
<212>	DNA
<213>	oligonucleotide

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<400> 6
gcgccctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60
cccgaaatat ctgccatctc aattag 86
```

<210>	7
<211>	27
<212>	DNA
<213>	oligonucleotide

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<220>
<221>   protein_bind
<222>   (1)..(27)
<223>   3' primer containing sequence complementary to SV40
       promoter and a HindIII site
```

```
<400> 7
gcggcaagct ttttgcaaag cctaggc
```

```
<210> 8
<211> 271
<212> DNA
<213> Homo sapiens
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<400>      8
ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg      60
aaatatctgc catctcaatt agtcagcaac catagtcccg ccctaactc cgcccatccc      120
gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat      180
ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt      240
ttttggaggc ctaggctttt gcaaaaagct t                                271

```

<210> 9
 <211> 32
 <212> DNA
 <213> oligonucleotide

<220>
 <221> primer_bind
 <222> (1)..(32)
 <223> 5' PCR primer

<400> 9
 gcgctcgagg gatgacagcg atagaacccc gg

32

<210> 10
 <211> 31
 <212> DNA
 <213> oligonucleotide

<220>
 <221> primer_bind
 <222> (1)..(31)
 <223> 3' PCR primer

<400> 10
 gcgaagcttc gcgactcccc ggatccgcct c

31

<210> 11
 <211> 12
 <212> DNA
 <213> oligonucleotide

<220>
 <221> primer_bind
 <222> (1)..(12)
 <223> NF-KB repeat in upstream primer

<400> 11
 ggggactttc cc

12

<210> 12
 <211> 73
 <212> DNA
 <213> oligonucleotide

<220>
 <221> primer_bind
 <222> (1)..(73)
 <223> 5' primer containing the NF-KB binding site, 18bp
 complementary to SV40 promotor, and an XhoI site

<400> 12
 gcggcctcga ggggactttc ccgggggactt tccggggact ttccgggact ttccatcctg 60
 ccattctcaat tag 73

<210> 13
 <211> 256
 <212> DNA
 <213> Homo sapiens

<400> 13
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 caattagtca gcaaccatag tcccgccct aactccgcc atcccgcccc taactccgcc 120
 cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180
 ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240
 cttttgcaaa aagctt 256

<210> 14
 <211> 27
 <212> DNA
 <213> oligonucleotide
 <220>
 <221> primer_bind
 <222> (1)..(27)
 <223> 5' primer containing a BamHI site and 18nt of TGF alpha HIII

<400> 14
 cgcggatccg ggcaaaagaa cctttgc 27

<210> 15
 <211> 30
 <212> DNA
 <213> oligonucleotide

<220>
 <221> primer_bind
 <222> (1)..(30)
 <223> 3' primer containing an XbaI site and 21 nt of TGF alpha HIII

<400> 15
 gcgtctagac taaagcagtg agaacgagcc 30

<210> 16
 <211> 34
 <212> DNA
 <213> oligonucleotide

W
B

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<220>
<221> primer_bind
<222> (1)..(34)
<223> 5' primer containing a BamHI site and 18nt of TGF alpha HIII

<400> 20
cgcggatccg tccatcatgg cgcctcacgg cccg 34

<210> 21
<211> 30
<212> DNA
<213> oligonucleotide

<220>
<221> protein_bind
<222> (1)..(30)
<223> 3' primer containing an XhoI site and 21 nt of TGF alpha HIII

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<400> 21
gcgctcagac ataagcagtg agaacgagcc 30